

Keysight N2744A T2A Interface Adapter



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Introduction

The N2744A T2A interface adapter enables selected TekProbe interface level 2 probes to be used with Keysight oscilloscopes with AutoProbe interface. Existing TekProbe-BNC probe types can simply be plugged into the T2A adapter, which is then plugged directly into any AutoProbe input channel on an InfiniiVision or Infiniium oscilloscope. The T2A interface adapter supplies the necessary probe power, calibration (for selected models only), and offset control as used by the connected TekProbe probe. The adapter is targeted for customers using both Tek active probes with TekProbe-BNC level 2 interfaces and Keysight oscilloscopes with the AutoProbe interface.

Refer to the table on the next page for a listing of compatible probes versus compatible Keysight oscilloscopes for this adapter.

Using the Adapter

To use the N2744A T2A Interface adapter, follow these steps:

- 1** Connect the N2744A adapter to one of the oscilloscope's AutoProbe interface channel inputs.
- 2** Connect the TekProbe probe to the other side of the N2744A adapter.
- 3** Select the probe model in the oscilloscope's menu and the Keysight oscilloscope automatically sets up the attenuation factor and the probe type.

Table 1 TekProbe Probes and Keysight Oscilloscopes Compatible for Use with N2744A Adapter

TekProbe Probe	InfiniiVision Oscilloscopes		Infiniium Oscilloscopes
	3000X / T ^a , 4000X, 6000X	5000 ^b , 6000 ^b , 7000 ^b	9000 ^c , 90000 ^c , S-Series, EXR-Series, MXR-Series, V-Series ^{cd} , Z-Series ^{cd}
AC/DC current probe			
TCP202 50 MHz AC/DC probe	■	■	■
Single-ended active probes			
P6243 1 GHz, 10:1 without offset control	■	■	■
P6245 1.5 GHz, 10:1 with offset control	■	■	■
P6205 750 MHz, 10:1 without offset control	■	■	■
P6241 4 GHz, 10:1 with offset control	■	■	■
P6249 4 GHz, 5:1 with offset control	■	■	■
Differential active probes			
P5205/P5205A ^e 100 MHz, 50:1/500:1 with offset control	■	■	
P5210/P5210A ^e 50 MHz, 100:1/1000:1 with offset control	■	■	
P6246 400 MHz, 10:1/1:1 with offset control	■	■	■
P6247 1 GHz, 10:1/1:1 with offset control	■	■	■
P6248 1.5 GHz, 10:1/1:1 with offset control	■	■	■
P6250 500 MHz, 50:1/5:1 with offset control	■	■	■
P6251 1 GHz, 50:1/5:1 with offset control	■	■	■
Optical-to-electrical converters			
P6701B 1 GHz with FC/PC connector		■	
P6703B 1.2 GHz with FC/PC connector		■	
P6711 250 MHz		■	
P6713 300 MHz		■	

a Software version 1.10 or higher.

b Software version 06.16 or higher. N2744A is not compatible with 6000 100 MHz scope.

c Software version 03.11 or higher.

d N5442A InfiniiMax adapter required.

e On the oscilloscope, select P5205 in the probe listing when using a P5205A, and select P5210 in the probe listing when using a P5210A.